

Abstract of the Invention

**METHOD FOR INCREASING LIGHT OLEFIN
YIELD BY CONVERSION OF A HEAVY
HYDROCARBON FRACTION OF A PRODUCT TO LIGHT OLEFINS**

5 A method for increasing light olefin yield during conversion of
oxygenates to olefins comprising: contacting an oxygenate feed in a primary
10 reactor with a non-zeolitic molecular sieve catalyst under conditions effective
to produce a first product comprising light olefins; separating the first product
into light olefins and a heavy hydrocarbon fraction; feeding the heavy
hydrocarbon fraction either back into the primary reactor or to a separate
auxiliary reactor; and, subjecting the heavy hydrocarbon fraction to conditions
15 effective to convert at least a portion of the heavy hydrocarbons to light
olefins.

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